

# Renegade Oil & Gas Company

## **Morris #13-4**

**NW NW SECTION 13, T6S, R63W**

**COMANCHE CREEK FIELD**

**ELBERT COUNTY, COLORADO**

### **WORKOVER REPORT**

1/20/06 – MI Key Energy Services Rig #76. Unhang rods. Unseat pump. TOH with rods and pump. ND wellhead. Anchor was stuck. Work pipe to shear anchor. Anchor finally freed. Pulled 2 joints. SDFN.

1/23/06 – Blow tubing down. Oil came out of tubing. RU swab. Attempt to swab down but couldn't get very deep due to mud. RD swab. RU hydrotester. Test 8 stands. Had mud in tubing. Attempt to pump out with hydrotester unsuccessfully. RD hydrotester. Trip back all tubing. Tag PBTD with 10' more than production string. Install JU head. SDFN.

1/24/06 – RU rig pump. Roll hole with 130 barrels produced water. Circulated heavy mud up casing. Remove JU head. TOH tallying tubing (240 joints, TA, 6 joints, SN and MA). Average joint - 31.23'. PBTD at 7734'KB. Tubing anchor had part of cage broke off. TIH with retrievable bridge plug. Would only go 50 joints and stopped. TOH. SDFN.

1/25/06 – TIH with bit, casing scraper and tubing. Rolled hole after 65 stands and again after 95 stands. Needed to work tight spot toward bottom. Rolled hole with 246 joints. TOH with tools. SDFN.

1/26/06 – TIH with retrievable bridge plug and 245 joints of tubing. Set RBP at approximately 7650'. Pulled 4 joints. Pumped sand down tubing. TOH with 45 stands. SD for wind.

1/27/06 – Finish TOH. TIH with packer and tubing. Set packer at 121 joints and tested good below. Hole hunted. Found bad casing from joint 105 to 77 (3284' to 2409'). Had problems with packer when testing. TOH. Packer looks good. Reran packer and confirmed bad casing areas. TOH. SDFN.

1/30/06 – Dig up surface head. Remove tubing head. RU on casing. Pulled slips. Worked casing. Indicated pipe free to at least 5800+' (77" stretch with 100K pull). SDFN.

1/31/06 – Work casing. Still free. Change over equipment for casing. Tighten casing for backoff. RU JW Wireline Services. RIH and shoot string shot at 3723'. Unscrew casing. Set back down. SDFN.

2/1/06 – TOH laying down 114 joints 4 ½" casing totaling 3717'. Joint 73 to 100 had numerous holes (2349'-3257'). Last 8-10 joints were in excellent condition. Unload replacement casing. TIH with casing skirt sub, casing port collar and 90 joints of 4 ½" casing. Screw back into production casing. SDFN.

2/2/06 – Tighten casing. Land in surface head. RD casing tools. RU tubing head. TIH with bit and tubing. Tagged at 16 joints. Unable to rotate down. TOH and found bit full of shale and mud. RU pump. TIH with 2 7/8" tubing collar and tubing. Tag. Attempt to pump and tubing swivel deeper. Heavy mud and shale plugging lines. TOH. SDFN.

2/3/06 – Lay down 8 singles. TIH with bit and 8 stands. RU to drill. Using tubing swivel clean well out of hard mud and shale. Cleaned out total of 23 joints. Roll hole clean. SDFN.

2/6/06 – RU drilling equipment. Continue cleaning out casing. Got 106 joints in well or 3323'. Roll well clean. Still recovering significant mud and shale. SDFN.

2/7/06 – Continue cleaning out casing to 144 joints or 4500'. RD drilling equipment. TOH with tubing and bit. TIH with port collar tool and 119 joints. Found port collar at 3702'. RU JU head. SDFN.

2/8/06 – RU BJ Services Company. Open port collar. Establish circulation. Mix and pump 500 sacks Premium Lite Cement containing 3% calcium and 6% gel mixed at 13 ppg and yield of 1.77 cft/sack. Pump at 2+ BPM and 1050 psi at displacement. Indications of cement in final returns. Displace with 13 ½ barrels. Close port collar. Run 6 singles. Reverse well clean with 25 barrels. RD cementers. TOH with tubing and port collar tool. PU retrieving head and TIH to RBP. Roll hole clean. Latch on RBP. SDFN.

2/9/06 – Remove JU head. Unset RBP. TOH. Lost plug during trip. TIH and found RBP with 20 stands. TOH. Still no RBP. TIH and found RBP with 15 stands. TOH and recovered RBP. TIH with cone bit and 246 joints. Tag fill at 7705'. SDFN.

2/10/06 – RU pump. Attempt to clean out to bottom. Lost 60 barrels to perfs. RU swab. Made 6 runs recovering approximately 60 barrels. Problems with ice on drum brakes due to cold. SDFN.

2/13/06 – Continue swabbing. Made 6 runs. IFL at 5200'. FFL at 7100'. Recovered approximately 30 barrels with a trace of oil. RD swab. TOH with tubing and bit. SDFN.

2/14/06 – TIH with bit, bulldog bailer and tubing. Tag at 7703' KB. Attempt to bail and drill on bottom. Made very little. TOH. Recovered minor amount of scale and mud. Suspect tubing anchor cage is the issue. SDFN.

2/15/06 – TIH with 3 7/8" flat bottom mill, bulldog bailer and tubing. Tag tight spot 3 joints down. Pull tubing to inspect mill. Looks fine. TIH and dress tight spot. Continue to 28 stands in when high winds came. SDF winds.

2/16/06 – Finish TIH. RU swivel. Attempt to drill old anchor cage. Made 2". RD swivel. TOH with pipe. Bailer had small amount of metal. SDFN.

2/20/06 – TIH with 2 1/16" notched collar (OD – 2.5"), bulldog bailer and tubing. Attempt to bail thru cage of old anchor. Made no hole. TOH. Recovered nothing. Small dent on collar. SDFN.

2/21/06 – TIH with FBM, bulldog bailer and tubing. Tagged cage. RU swivel. Drilled up cage and cleaned out to 7760' with 248 joints. TOH. Cleaned out bailer cavity. SDFN.

2/22/06 – RU J-W Wireline Services. RIH and perforate D Sand from 7689'-7699' with 4 SPF. RD wireline. RU hydrotester. PU 3 tail joints, packer and test tubing in hole. Blew 6 joints. RD tester. PU replacement joints and tag at 7770'. Lay down tag joint. RU swab. SDFN.

2/23/06 – Made 3 swab runs. IFL at 6100'. FFL at 6800'. Lay down 2 joints. Put in wellhead rubber. Set packer. Made 1 additional swab run. Recovered rubber in tubing. Ran sinker bar to EOT. No obstruction. RU Maverick Stimulation Company. Pump 500 gallons 7 ½% HCl acid with additives followed by 146 barrels of condensate flush. Pumped most at 2 ¼ BPM and 3500 psi. ISIP-1860 psi. 5 min-1080 psi. 10 min-640 psi. 15 min-270 psi. Vacuum in 20 minutes. RD Maverick. RU swab and make 7 runs. IFL at 600'. FFL at 6000'. Estimated 45 barrels condensate recovered. SDFN.

2/24/06 – Made 1 swab run. IFL at 5400'. RD swab. Unset packer. TOH with tubing and packer. TIH with production string containing 247 joints. Set anchor. Land tubing. TIH with pump and rods. Seat pump. Hang well on. Put to pump. SDFN.

2/27/06 – Cleaned up location. RDMO service rig.

2/28/06 – Well not pumping. MIRU Key Energy Services Rig #76. Unhang well. Unseat pump. TOH with rods and pump. Blow down casing. ND wellhead. Release anchor. TOH with production string. Found hole in 208<sup>th</sup> joint. Replace bad joint. Swap out anchor. TIH with production tubing. Set anchor. Land tubing. TIH with pump and rods. Seated pump. Hang well on. No gas to start engine. SDFN.

3/1/06 – RD service rig. Clean up location. MO rig.